



- The study of age-related changes in behavior and mental processes from conception to death
- Current issues in Developmental Psychology:
 - Nature vs. Nurture
 - Continuity vs. Discontinuity



TABULA

Developmental Psychology

• Nature vs. Nurture

- Led by John Locke (1632-1704), early philosophers argued that our minds were a "tabula rasa" or blank slate
- Proponents of the nurture position continue to argue that development occurs through learning and personal experience



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Developmental Psychology

•Nature vs. Nurture

- Supporters of the "Nature" position emphasize the role of maturation
 - Maturation: Sequence of genetically programmed processes of growth and development that occur over time
- Also point to the importance of critical periods in maturation
 - Critical Period: A specific time of great sensitivity to agerelated learning that shapes the capacity for future cognitive developments





Developmental Psychology

• Stability vs. Change

- Stability = Personality traits present during present during infancy endure throughout the lifespan.
- Change = Personalities are modified by interactions with family, experiences at school, and acculturation.
 - Similar to Nature vs. Nurture, but more focused on our personality traits and behavior



Prenatal Development • The Prenatal Period • Begins with conception and ends approximately nine months later with birth • Stages: • Zygote • First 10 days following conception • Embryo • Cells begin to divide and Fetal Growth From 8 to 40 Weeks differentiate into organ systems. Lasts until 8 weeks after conception • Fetus • Neural cells are produced at 250,000 per minute • Lasts until birth Embryo

Prenatal Development

at 8 at 12 Weeks Weeks

• Teratogens

- Toxic substances that can harm the fetus if ingested or contracted by the mother
- Includes:
 - Drugs
 - Alcohol
 - Nicotine
 - Viruses (HIV, AIDS, etc.)
- Example:
 - Fetal Alcohol Syndrome: Combination of birth defects, organ deformities, and mental, motor, and/or growth retardation that results from maternal alcohol use



Neonatal Development

• Neonatal/Newborn Stage

- Extends from birth to one month of age
- Sensory Abilities:
 - Can respond to sweet, salty, and bitter tastes
 - Can see close objects, such as their mothers face, but have poor distance vision
 - Are attracted to female voices and begin to recognize their mother's voice



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Neonatal Development

• Reflexes

- Newborns are equipped with a variety of behavioral reflexes to help them survive
- Examples:
 - **Grasping Reflex:** Enables newborns to cling to their mother or father
 - **Postural Reflex:** Enables newborns to sit with support
 - Rooting Reflex: Enables newborns to turn toward the source of a touch and open their mouths



• Brain Development

- Infancy is characterized by rapid growth and development of the brain and nervous system
- By age 2, an infant's brain is about 75% of its adult weight and size
- People cannot remember events that occurred when they were infants because many brain circuits were not fully connected at the time





Language Development

- Noam Chomsky and other linguists believe that all children have an innate ability to learn language
- "Baby Talk" encourages language development
 - Uses distinct pronunciation of simplified words such as "bye-bye" and "night-night"







• Attachment

- Definition: The strong bond of affection that forms between a child and a parent or other regular caregiver
- Secure Attachment
 - Forms when parents or caregivers consistently meet the infant's needs by being warm and responsive

• Insecure Attachment

• Forms when parents or caregivers fail to fully meet the infant's needs by being neglectful and inconsistent



Infant Development

Mary Ainsworth's "Strange Situation"

- Securely attached infants responded by using the mother as a "secure base" for exploring the room and displayed a positive reaction to their mother
- Insecurely attached infants were less likely to explore the room and more likely to display negative reactions to their mother



• Contact Comfort

- During the 1940's and 1950's developmental psychologists believed that infants formed an attachment bond with those who provided them with nourishment
- This theory ignored the role of physical contact



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Infant Development

• Harry Harlow's Monkeys

- Cloth Mother vs. Wire Mother
- Experimental results and photographs show that in frightened situations, the infant monkeys would cling to the cloth mother
- The pattern followed in similar situations, despite the fact that the wire mother provided milk



• Harry Harlow's Monkeys

• Harlow concluded that the stimulation and reassurance derived from the physical touch of a parent or caregiver plays a key role in developing healthy physical growth and normal socialization

